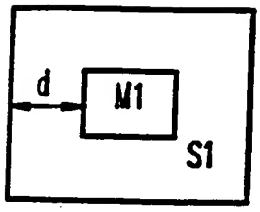

FIG.1

PRIOR ART

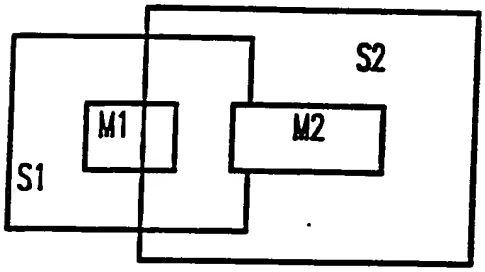

FIG.2

PRIOR ART

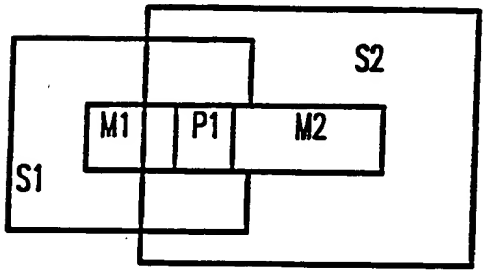

FIG.3

PRIOR ART

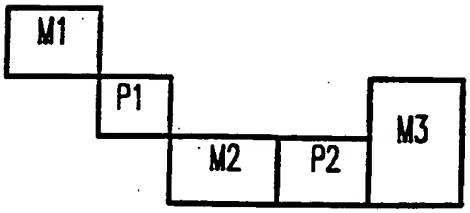

FIG.4

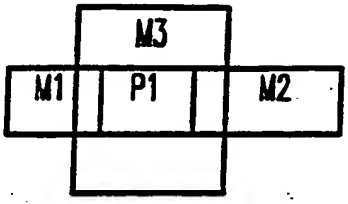

FIG.5

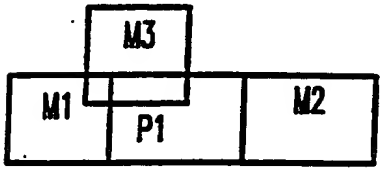

FIG.6

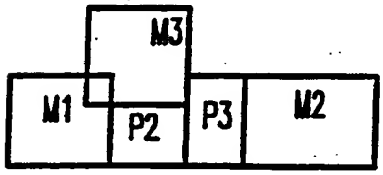

FIG.7

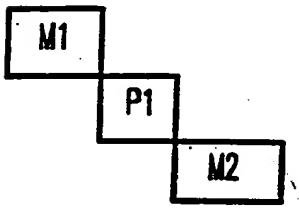

FIG.8

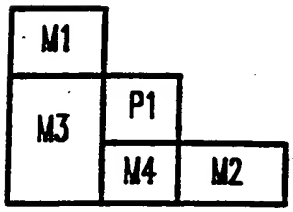

FIG.9

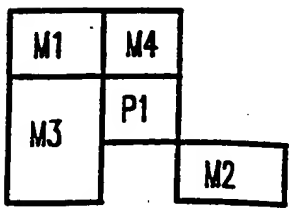

FIG.10

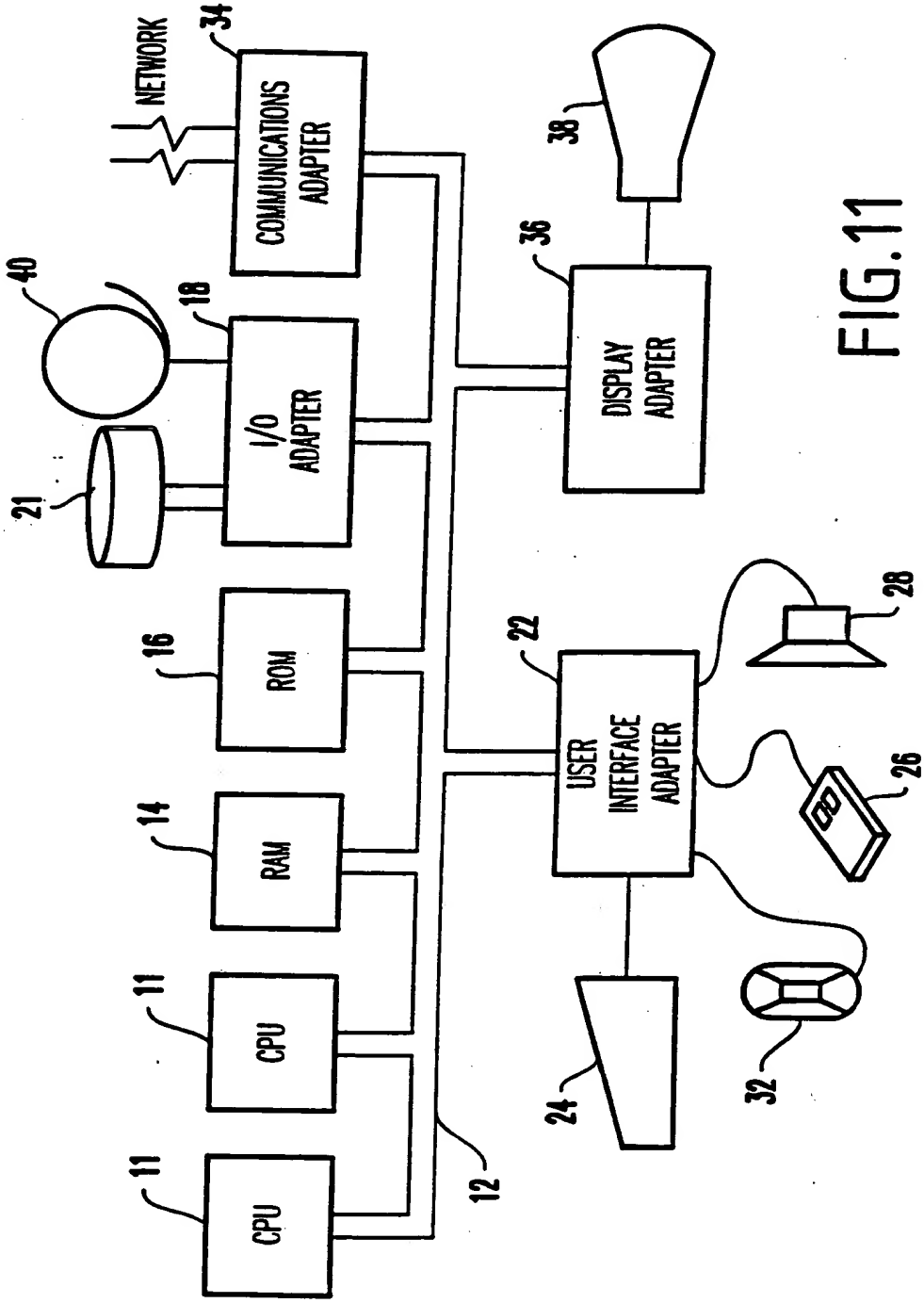
NETWORK
34
COMMUNICATIONS ADAPTER
38
36
DISPLAY ADAPTER
40
18
I/O ADAPTER
21
16
ROM
22
USER INTERFACE ADAPTER
28
14
RAM
26
11
CPU
11
CPU
12
24
32

FIG.11

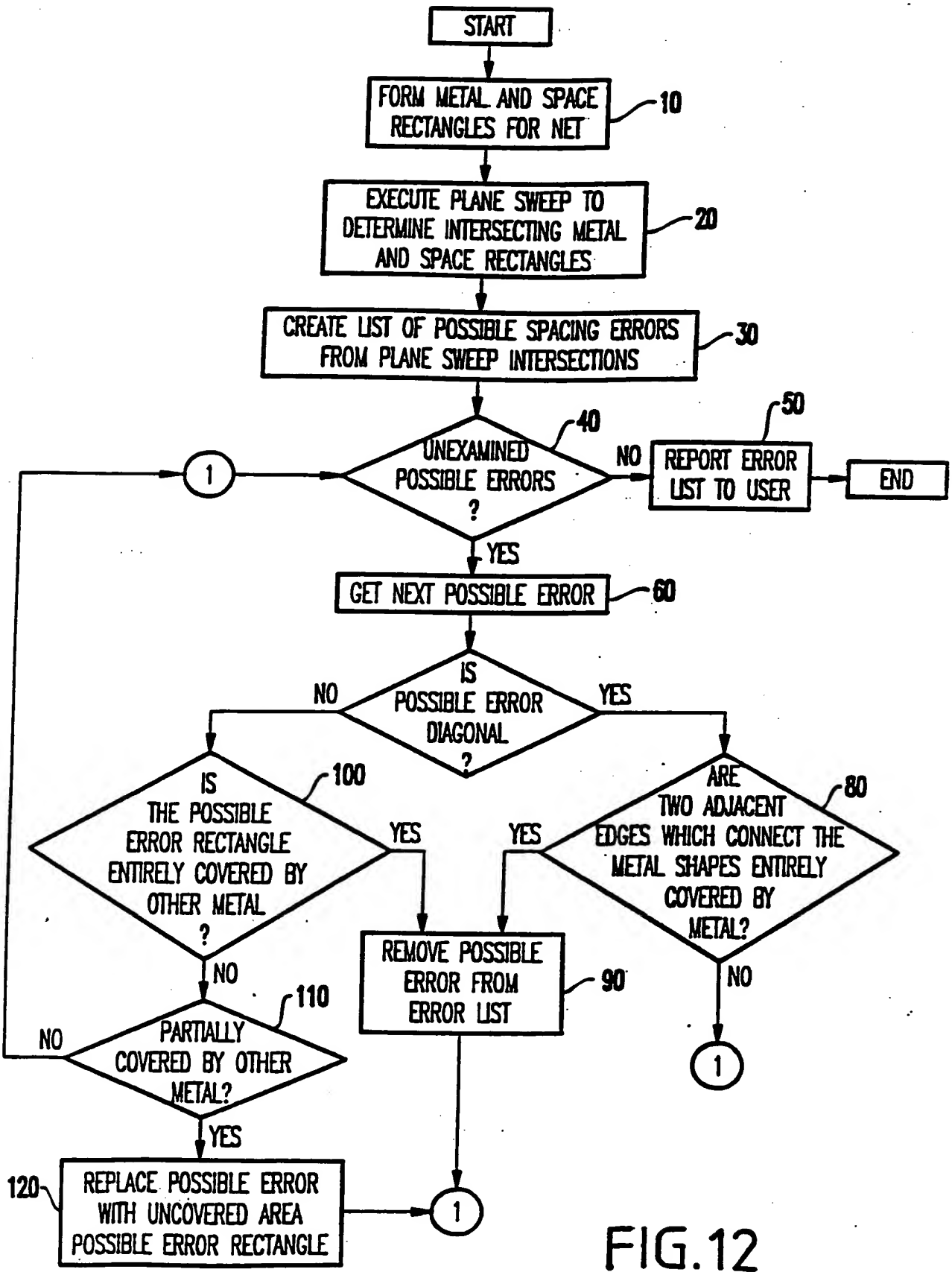
START
FORM METAL AND SPACE RECTANGLES FOR NET
10
EXECUTE PLANE SWEEP TO DETERMINE INTERSECTING METAL AND SPACE RECTANGLES
20
CREATE LIST OF POSSIBLE SPACING ERRORS FROM PLANE SWEEP INTERSECTIONS
30
UNEXAMINED POSSIBLE ERRORS ?
40
NO
REPORT ERROR LIST TO USER
50
END
1
YES
GET NEXT POSSIBLE ERROR
60
IS POSSIBLE ERROR DIAGONAL ?
NO
YES
IS THE POSSIBLE ERROR RECTANGLE ENTIRELY COVERED BY OTHER METAL ?
100
YES
NO
ARE TWO ADJACENT EDGES WHICH CONNECT THE METAL SHAPES ENTIRELY COVERED BY METAL?
80
YES
NO
REMOVE POSSIBLE ERROR FROM ERROR LIST
90
1
PARTIALLY COVERED BY OTHER METAL?
110
NO
YES
REPLACE POSSIBLE ERROR WITH UNCOVERED AREA POSSIBLE ERROR RECTANGLE
120
1

FIG.12